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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 07678/062004 Н ZHU 07/11/00 09/613,486 **EXAMINER** HM22/1003 YUCEL, I PAUL T CLARK CLARK & ELBING LLP 176 FEDERAL STREET PAPER NUMBER **ART UNIT** 1636 BOSTON MA 02110 DATE MAILED: 10/03

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)
	09/613,486	ZHU ET AL.
Office Action Summary	Examiner	Art Unit
-	Yucel Remy	1636
The MAILING DATE of this communication app	•	the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH as cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	·	
2a) This action is FINAL . 2b) The	nis action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-18</u> is/are pending in the applicatio	n.	
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) 1-18 are subject to restriction and/or	election requirement.	
Application Papers		
9) The specification is objected to by the Examin	er.	
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) · Informal Patent Application (PTO-152) It is alled action .
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DETAILED ACTION

Claims 1-18 are pending in the application.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 and 2, drawn to a RNA molecule encoding a protein or polypeptide of GVLR, type 2, classified in class 536, subclass 23.1.
- II. Claims 3-10, drawn to a DNA molecule encoding a protein or polypeptide of GVLR, type 2, an expression system, and host cell compassing same, classified in class 435, subclasses, 320.1, 410, 414, and 252.3.
- III. Claims 11-13, drawn to a transgenic plant cultivar, classified in class 800, subclass 301.
- IV. Claims 14-18, drawn to a method of imparting grapevine leafroll virus resistance to a plant, classified in class 800, subclass 280.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-III are distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different products. For example, the transgenic plant of group III is distinct from the RNA and DNA molecules of groups I and II, respectively. The plant has functions which are distinct from the functions of the RNA and DNA. Likewise, the RNA and DNA possess different functions and effects and are also distinct.

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Inventions IV and I are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together.

Inventions II and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product (DNA, expression system and cell) can be used in methods for detecting GVLR or in methods of expressing and producing GVLR proteins.

Inventions IV and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process may also be used to produce proteins or polypeptides of GVLR, i.e. for subsequent antibody production.

Because these inventions are distinct for the reasons given above and their recognized divergent subject matter and because the searches required for Groups I-IV are not coextensive, restriction for examination purposes as indicated is proper.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed "species" for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Groups I and II comprise distinct inventions drawn to each of a

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polyprotein, an RNA-dependent RNA polymerase, a heat shock protein 70, a heat shock protein 90 a diverged coat protein and a coat protein. Because none of the proteins renders the others obvious, inventions comprising each of the proteins may properly support their own patent.

Applicant is advised that a reply to this requirement must include an identification of the "species" that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

Page 5 Application/Control Number: 09/613,486 Art Unit: 1636 currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i). Any inquiry concerning this communication or earlier communications from the examiner should be directed to Remy Yucel, Ph.D. whose telephone number is (703) 305-1998. The examiner can normally be reached on Monday-Friday, 8:00am-4:30 pm. If attempts to reach

the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader can be reached at (703) 308-0447. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7939 for regular communications and (703) 305-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to patent analyst Dianiece Jacobs whose telephone number is (703) 305-3388.

> Remy pral Remy Yucel, Ph.D. Primary Examiner Art Unit 1636

September 28, 2001